

ASSETS FOR EARLY STAGE 1 SCENARIO DEVELOPMENT	
ASSET	DESCRIPTION OF ASSET APPLICATION FOR SCENARIO DEVELOPMENT
SOURCE SHIFTING	<ul style="list-style-type: none"> <li>◆ MWD: Shift delivery of 60,000 af (2000 Ops), could continue at some level through Stage 1</li> </ul>
GROUNDWATER BANKING SOUTH OF THE DELTA, GROUNDWATER SUBSTITUTION, CROP SHIFTING, CONSERVATION, RECLAMATION	<ul style="list-style-type: none"> <li>◆ Potential for 100 taf in Kern Water Bank on annual basis for three years in first years of a drought</li> <li>◆ Vidler/Semitropic groundwater storage bank capacity (49 taf/100 taf)</li> <li>◆ Kern groundwater substitution (90 taf)</li> <li>◆ Crop shifting in Delta (opportunistic shift to less water intensive crops during certain time periods)</li> <li>◆ General opportunistic shift of surface water users to groundwater</li> <li>◆ Conservation/reclamation project benefits?</li> </ul>
MARKETS PURCHASE, OPTION, LEASE (SHORT-TERM, LONG-TERM)	<ul style="list-style-type: none"> <li>◆ Purchase Upstream water for multiple purposes</li> <li>◆ Acquire water in Sacramento Valley? San Joaquin eastside?</li> <li>◆ Acquire water in-Delta and in export area</li> <li>◆ Acquire PG&amp;E reoperation water</li> <li>◆ Acquire Vidler/Semitropic water?</li> <li>◆ Integrate water acquired for ERP flows with EWA/WMS</li> <li>◆ Acquire options north/south of Delta</li> </ul>
LAKE ALMANOR RELEASES (FEATHER RIVER)	<ul style="list-style-type: none"> <li>◆ Approximately 100 taf on annual basis March-May flows</li> </ul>

02/03/02

INCREASED BANKS PUMPING CAPACITY/ACCESS TO UNUSED DELTA PUMPING CAPACITY	<ul style="list-style-type: none"> <li>◆ Increase pumping capacity by 500 cfs in year 2000 (70,000-90,000 af)</li> <li>◆ Increase pumping capacity to 6600 cfs to 8500 cfs July-September</li> <li>◆ 6600 cfs + 1/3 San Joaquin River flow November-March</li> </ul>
FLEXING E/I RATIO	<ul style="list-style-type: none"> <li>◆ Shift averaging period from 14 days to 3 days; or flex the ratio</li> </ul>
RESERVOIR REOPERATION	<ul style="list-style-type: none"> <li>◆ Coordinate/optimize operation of reservoirs to increase overall system flexibility (look for small reservoir opportunities)</li> </ul>
ACCESS TO SURPLUS CVP/SWP STORAGE CAPACITY	<ul style="list-style-type: none"> <li>◆ Access to San Luis and upstream reservoirs</li> </ul>
ACCESS TO UNUSED NON-PROJECT STORAGE	<ul style="list-style-type: none"> <li>◆ Investigate potential for access on Yuba and SJ tributaries on no-harm basis</li> </ul>
ALTER FLOOD CONTROL DIAGRAMS	<ul style="list-style-type: none"> <li>◆ May be limited to small scale efforts on the San Joaquin and Stanislaus Rivers</li> <li>◆ Pursue other small-scale projects in Stage 1 in addition to above efforts</li> </ul>
PUMPING TO STORAGE	<ul style="list-style-type: none"> <li>◆ Good general strategy for expansion of conjunctive use opportunities by optimizing use of groundwater/surface water</li> <li>◆ Would require additional facilities to maximize use otherwise benefits could be relatively small; could result in spilling of stored water</li> </ul>
INTERTIE	<ul style="list-style-type: none"> <li>◆ 400cfs capacity</li> <li>◆ Need to determine real benefit of intertie when linked to other assets - staging issue</li> </ul>

02/03/02

<b>SHIFTING REFUGE SUPPLIES</b>	Investigate the following: <ul style="list-style-type: none"> <li>◆ Diversify sources of water for refuges</li> <li>◆ Borrow acquired refuge water for EWA</li> <li>◆ Increase conveyance efficiency</li> <li>◆ Use refuges as small-scale storage projects</li> </ul>
<b>ACQUISITION OF IN-DELTA ISLANDS FROM WILLING SELLERS</b>	<ul style="list-style-type: none"> <li>◆ Reduce application and subsequent run-off/seepage of pesticides</li> </ul>
<b>MANAGE DISCHARGES FROM IN-DELTA ISLANDS</b>	<ul style="list-style-type: none"> <li>◆ Relocate/reroute Delta agricultural drains or hold water for discharge on outgoing tides or for high flow periods to manage salinity, selenium, TDS</li> </ul>
<b>DELTA CROSS CHANNEL</b>	<ul style="list-style-type: none"> <li>◆ Operate to freshen Delta and to improve export water quality</li> </ul>
<b>CONTROL ALGAL GROWTH IN CLIFTON COURT FOREBAY</b>	<ul style="list-style-type: none"> <li>◆ Needs definition</li> </ul>